Title (en)

VACUUM-ASSISTED SAMPLE EXTRACTION DEVICE AND METHOD

Title (de)

VAKUUMUNTERSTÜTZTE PROBENEXTRAKTIONSVORRICHTUNG UND VERFAHREN

Title (fr)

DISPOSITIF ET PROCÉDÉ D'EXTRACTION D'ÉCHANTILLON ASSISTÉ PAR DÉPRESSION

Publication

**EP 3427047 B1 20221026 (EN)**

Application

**EP 17711963 A 20170307**

Priority

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Abstract (en)

[origin: US2017261408A1] A sample extraction device and a desorption device for use in gas chromatography (GC), gas chromatography-mass spectrometry (GCMS), liquid chromatography (LC), and/or liquid chromatography-mass spectrometry (LCMS) are disclosed. In some examples, the sample extraction device includes a lower chamber holding a sorbent. The sample extraction device can extract sample headspace gas from a sample vial by placing the sorbent inside the vial and creating a vacuum to increase recovery of low volatility compounds, for example. Once the sample has been collected, the sample extraction device can be inserted into a desorption device. The desorption device can control the flow of a carrier fluid (e.g., a liquid or a gas) through the sorbent containing the sample and into a pre-column and/or a primary column of a chemical analysis device for performing GC, GCMS, LC, LCMS, and/or some other chemical analysis process.

IPC 8 full level

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CPC (source: EP US)

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